

(19) World Intellectual Property
Organization
International Bureau



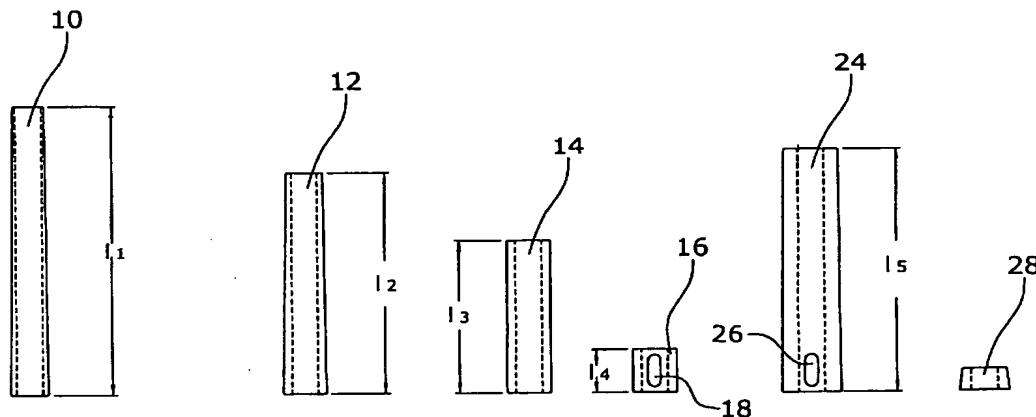
(43) International Publication Date
15 April 2004 (15.04.2004)

PCT

(10) International Publication Number
WO 2004/031578 A1

- (51) International Patent Classification⁷: F03D 11/04 (74) Agents: HILLERINGMANN, Jochen et al.; Deichmannhaus am Dom, 50667 Cologne (DE).
- (21) International Application Number: PCT/EP2003/010839 (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (22) International Filing Date: 30 September 2003 (30.09.2003)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: 102 45 732.8 - 1 October 2002 (01.10.2002) DE
- (71) Applicant (*for all designated States except US*): GENERAL ELECTRIC COMPANY [US/US]; 1 River Road, Schenectady, NY 12345 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (*for US only*): SEIDEL, Marc [DE/DE]; Sophienstrasse 2, 48429 Rheine (DE). VON MUTIUS, Martin [DE/DE]; Hengemühlweg 206, 48429 Rheine (DE). UPHUES, Ulrich [DE/DE]; Dannenbergstr. 3, 30459 Hannover (DE).
- (84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:
— with international search report
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

(54) Title: MODULAR KIT FOR A WIND TURBINE TOWER



(57) Abstract: The modular kit for a tower has a height ranging between a minimum height and a maximum height, in particular for a wind energy turbine, comprises a first conical tower segment (10) comprising a steel tube having a predetermined length (l1), a second conical tower segment (12) comprising a steel tube having a predetermined length (l2), and a first cylindrical tower segment (14) comprising a steel tube having a length between a predetermined minimum length and a predetermined maximum length. The length of the first cylindrical tower segment (14) can be adapted to the necessary height of the tower between its minimum height and its maximum height. The minimum height is the sum of the predetermined lengths (l1, l2) of the first and second conical tower segments (10, 12) and the minimum length of the first cylindrical tower segment (14). The maximum height is the sum of the predetermined lengths (l1, l2) of the first and second conical tower segments (10, 12) and the maximum length of the first cylindrical tower segment (14).